Atty Docket No. 022193-042810US

PTO FAX NO.: (703) 872-9306

ATTENTION: O.I.P.E.
TELEPHONE NO.: (703) 308-1202

Group Art Unit Unassigned

OFFICIAL COMMUNICATION

FOR THE ATTENTION OF THE O.I.P.E.

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following documents in re Application of Michael Peters, Application No. 10/782,386, filed February 18, 2004 for METHOD AND CIRCUIT FOR INCREASING THE MEMORY ACCESS SPEED OF AN ENHANCED SYNCHRONOUS SDRAM are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Document(s) Attached

1. Transmittal Form (PTO/SB/21)
2. Revocation of Power of Attorney with New Power of Attorney and Change of Correspondence Address
3. Statement Under 37 CFR 3.73(b) with copy of Assignment

Number of pages being transmitted, including this page: 11

Dated: May 21, 2004

Michael Nowak

PLEASE CONFIRM RECEIPT OF THIS PAPER BY RETURN FACSIMILE AT (415) 576-0300

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, CA 94111-3834
Telephone: 415-576-0200
Fax: 415-576-0300

60223149 v1

PTO/SB/21 (08-03)

TRANSMITTAL FORM *(to be used for all correspondence after initial filing)*		Application Number	10/782,386
		Filing Date	February 18, 2004
		First Named Inventor	Peters, Michael
		Art Unit	Unassigned
		Examiner Name	Unassigned
Total Number of Pages In This Submission	10	Attorney Docket Number	022193-042810US

ENCLOSURES *(Check all that apply)*

☐ Fee Transmittal Form	☒ Revocation of Power of Attorney with New Power of Attorney and Change of Correspondence Address	☐ After Allowance Communication to Group
☐ Fee Attached	☒ Statement Under 37 CFR 3.73(b) with copy of Assignment	☐ Appeal Communication to Board of Appeals and Interferences
☐ Amendment/Reply	☐ Petition	☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
☐ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation Change of Correspondence Address	☐ Status Letter
☐ Extension of Time Request	☐ Terminal Disclaimer	☒ Other Enclosure(s) *(please identify below)*:
☐ Express Abandonment Request	☐ Request for Refund	Facsimile Cover Sheet
☐ Information Disclosure Statement	☐ CD, Number of CD(s)	
☐ Certified Copy of Priority Document(s)	Remarks	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.
☐ Response to Missing Parts/ Incomplete Application		
☐ Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP Patrick R. Jewik Reg. No. 40,456
Signature	
Date	May 21, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, Fax No. (703) 872-9306 on May 21, 2004

Typed or printed name	Michael Nowak		
Signature		Date	May 21, 2004

60223099 v1

PTO/SB/82 (09-03)

REVOCATION OF POWER OF ATTORNEY WITH NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS		
	Application Number	10/782,386
	Filing Date	February 18, 2004
	First Named Inventor	Peters, Michael
	Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	022193-042810US

I hereby revoke all previous powers of attorney given in the above-identified application:

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number: **20350**

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with Customer Number: 20350

OR

☐ Firm *or* Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed, (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	Julia Ceffalo		
Signature			
Date	19 May 2004	Telephone	

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

60212432 v1

PTO/SB/96 (08-03)

Attorney Docket No. 022193-042810US

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Michael Peters

Application No./Patent No.: 10/782,386 Filed/Issue Date: February 18, 2004

Entitled: METHOD AND CIRCUIT FOR INCREASING THE MEMORY ACCESS SPEED OF AN ENHANCED SYNCHRONOUS SDRAM

Purple Mountain Server LLC, a Delaware corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is ____%

in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel ____, Frame ____, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Michael Peters To: Enhanced Memory Systems, Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 011857, Frame 0268, or for which a copy thereof is attached.

2. From: Enhanced Memory Systems, Inc. To: Purple Mountain Server LLC
The document was recorded in the United States Patent and Trademark Office at Reel ____, Frame ____, or for which a copy thereof is attached.

3. From: ____ To: ____
The document was recorded in the United States Patent and Trademark Office at Reel ____, Frame ____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

19 May 2004
Date

Telephone number

Julie Ceffalo
Typed or printed name

Signature

Authorized Person
Title

60214472.v1

Exhibit B

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, **Ramtron International Corporation** and **Enhanced Memory Systems, Inc.**, each having offices at 1850 Ramtron Drive, Colorado Springs, Colorado 80921 (*together*, "*Assignor*"), do hereby sell, assign, transfer and convey unto **Purple Mountain Server LLC**, a Delaware limited liability company, having an office at 171 Main Street, #271, Los Altos, California 94022 ("*Assignee*") or its designees, all of Assignor's right, title and interest in and to: the patent applications and patents listed below, any patents, registrations, or certificates of invention issuing on any patent applications listed below, the inventions disclosed in any of the foregoing, any and all counterpart United States, international and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing, and all reissues, re-examinations, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "*Patent Rights*"):

Patent or Application No.	Country	Filing Date	Assignor	Title Inventor(s)
Pat. 5,104,822 (RAM 317)	U.S.	07/30/1990	RAM	Method For Creating Self-Aligned, Non-Patterned Contact Areas And Stacked Capacitors Using The Method Butler
Pat. 5,162,890 (RAM 317 DIV)	U.S.	04/05/1991	RAM	Stacked Capacitor With Sidewall Insulation Butler
Pat. 2673615 (RAM 317 JPN)	Japan	07/30/1991	RAM	Method For Creating Self-Aligned, Non-Patterned Contact Areas And Stacked Capacitors Using The Method Butler
Pat. 5,170,242 (RAM 319 CON)	U.S.	05/10/1991	RAM	Reaction Barrier For A Multilayer Structure In An Integrated Circuit Stevens, Maekawa
Pat. 2075540 (RAM 319 JPN)	Japan	07/13/1990	RAM	Reaction Barrier For A Multilayer Structure In An Integrated Circuit Stevens, Maekawa
Pat. 5,075,817 (RAM 320)	U.S.	6/22/1990	RAM	Trench Capacitor For Large Scale Integrated Memory Butler
Pat. 2089169 (RAM 320 JPN)	Japan	06/21/1991	RAM	Trench Capacitor For Large Scale Integrated Memory Butler

Pat. 5,610,099 (RAM 321)	U.S.	06/28/1994	RAM	Process For Fabricating Transistors Using Composite Nitride Structure Stevens, Bailey, Taylor
Pat. 5,043,790 (RAM 322)	U.S.	04/05/1990	RAM	Sealed Self Aligned Contacts Using Two Nitrides Process Butler
Pat. 5,216,281 (RAM 322 CIP)	U.S.	08/26/1991	RAM	Sealed Self Aligned Contact Incorporating A Dopant Source Butler
Pat. 2005865 (RAM 322 JPN)	Japan	04/05/1991	RAM	Sealed Self Aligned Contacts Using Two Nitrides Process Butler
Pat. 5,134,310 (RAM 324)	U.S.	01/23/1991	RAM	Current Supply Circuit For Driving High Capacitance Load In An Integrated Circuit Mobley, Eaton
Pat. 2932122 (RAM 324 JPN)	Japan	01/23/1992	RAM	Current Supply Circuit For Driving High Capacitance Load In An Integrated Circuit Mobley, Eaton
Pat. 5,117,177 (RAM 325)	U.S.	01/23/1991	RAM	Reference Generator For An Integrated Circuit Eaton
Pat. 3106216 (RAM 325 JPN)	Japan	01/23/1992	RAM	Reference Generator For An Integrated Circuit Eaton
Pat. 5,255,222 (RAM 326)	U.S.	01/23/1991	RAM	Output Control Circuit Having Continuously Variable Drive Current Eaton
Pat. 3136424 (RAM 326 JPN)	Japan	01/22/1992	RAM	Output Control Circuit Having Continuously Variable Drive Current Eaton
Pat. 5,699,317 (RAM 343 CIP)	U.S.	10/06/1994	EMS	Enhanced Dram With All Reads From On-Chip Cache And All Writes To Memory Array Mobley, Sartore, Carrigan, Jones
Pat. 5,721,862 (RAM 343 CON)	U.S.	06/02/1995	EMS	Enhanced Dram With Single Row SRAM Cache For All Device Read Operations Mobley, Sartore, Carrigan, Jones
Pat. 69324508.5 (RAM 343 DE)	Germany	01/14/1993	EMS	Edram With Embedded Registers Mobley, Sartore, Carrigan, Jones

Pat. 5,887,272 (RAM 343 DIV)	U.S.	07/03/1997	EMS	Enhanced Dram With Embedded Registers Mobley, Sartore, Carrigan, Jones
Pat. 6,347,357 (RAM 343 DIV/CON)	U.S.	10/30/1998	EMS	Enhanced Dram With Embedded Registers Mobley, Sartore, Carrigan, Jones
App. 09/962,287 (RAM 343 DIV/CN2)	U.S.	09/24/2001	EMS	Enhanced Dram With Embedded Registers Mobley, Sartore, Carrigan, Jones
Pat. 2851503 (RAM 343 JPN)	Japan	01/21/1993	EMS	EDRAM Having A Dynamically-Sized Cache Memory And Associated Method Mobley, Sartore, Carrigan, Jones
Pat. 5,566,318 (RAM 381)	U.S.	08/02/1994	RAM	Circuit With A Single Address Register That Augments A Memory Controller By Enabling Cache Reads And Page-Mode Writes Joseph
Pat. 5,835,442 (RAM 393)	U.S.	03/22/1996	EMS	EDRAM With Integrated Generation And Control Of Write Enable And Column Latch Signals And Method For Making Same Joseph, D.N. Heisler, D.J. Heisler
Pat. 5,991,851 (RAM 417)	U.S.	05/02/1997	EMS	Enhanced Signal Processing Random Access Memory Device Utilizing A Dram Memory Array Integrated With An Associated SRAM Cache And Internal Refresh Control Alwais, Mobley
Pat. 5,901,100 (RAM 418)	U.S.	04/01/1997	RAM	First-In, First-Out Integrated Circuit Memory Device Utilizing A Dynamic Random Access Memory Array For Data Storage Implemented In Conjunction With An Associated Static Random Access Memory Cache Taylor
Pat. 6,072,741 (RAM 418 CIP)	U.S.	03/11/1999	RAM	First-In, First-Out Integrated Circuit Memory Device Utilizing A Dynamic Random Access Memory Array For Data Storage Implemented In Conjunction With An Associated Static Random Access Memory Cache Taylor
Pat. 6,172,927 (RAM 418 CIP2)	U.S.	03/24/2000	RAM	First-In, First-Out Integrated Circuit Memory Device Incorporating A Retransmit Function Taylor

Pat. 6,141,281 (RAM 429)	U.S.	04/29/1998	EMS	Technique For Reducing Element Disable Fuse Pitch Requirements In An Integrated Circuit Device Incorporating Replaceable Circuit Elements Mobley, Ash
Pat. 6,055,192 (RAM 430)	U.S.	09/03/1998	EMS	Dynamic Random Access Memory Word Line Boost Technique Employing A Boost-On-Writes Policy Mobley
Pat. 6,064,620 (RAM 432)	U.S.	07/08/1998	EMS	Multi-Array Memory Device, And Associated Method, Having Shared Decoder Circuitry Mobley
Pat. 6,278,646 (RAM 432 CIP)	U.S.	03/23/2000	EMS	Multi-Array Memory Device And Associated Method Having Shared Decoder Circuitry Mobley
Pat. 5,963,481 (RAM 447)	U.S.	06/30/1998	EMS	Embedded Enhanced DRAM And Associated Method Alwais, Peters
App. 99302956.0 (RAM 447 EPO)	Europe	04/16/1999	EMS	Embedded Enhanced DRAM And Associated Method Alwais, Peters
Pat. 6,249,840 (RAM 448)	U.S.	10/23/1998	EMS	Multi-Bank Esdram With Cross-Coupled SRAM Cache Registers Peters
Pat. 6,330,636 (RAM 450)	U.S.	01/25/1999	EMS	Double Data Rate Synchronous Dynamic Random Access Memory Device Incorporating A Static RAM Cache Per Memory Bank Bondurant, Peters, Mobley
Pat. 6,151,236 (RAM 460)	U.S.	02/29/2000	EMS	Enhanced Bus Turnaround Integrated Circuit Dynamic Random Access Memory Device Bondurant, Fisch, Grieshaber, Mobley, Peters
Pat. 6,301,183 (RAM 460 CON)	U.S.	07/27/2000	EMS	Enhanced Bus Turnaround Integrated Circuit Dynamic Random Access Memory Device Bondurant, Fisch, Grieshaber, Mobley, Peters
App. 2001-052888 (RAM 460 JPN)	Japan	02/27/2001	EMS	Enhanced Bus Turnaround Integrated Circuit Dynamic Random Access Memory Device Bondurant, Fisch, Grieshaber, Mobley, Peters

Pat. 6,392,441 (RAM 461)	U.S.	06/13/2000	EMS	Fast Response Circuit Moscaluk
Pat. 6,373,751 (RAM 463)	U.S.	05/15/2000	EMS	Packet-Based Integrated Circuit Dynamic Random Access Memory Device Incorporating An On-Chip Row Register Cache To Reduce Data Access Latencies Bondurant
Pat. 6,549,472 (RAM 463 CON)	U.S.	02/21/2002	EMS	Packet-Based Integrated Circuit Dynamic Random Access Memory Device Incorporating An On-Chip Row Register Cache To Reduce Data Access Latencies Bondurant
Pat. 6,646,928 (RAM 463 DIV)	U.S.	01/16/2003	EMS	Packet-Based Integrated Circuit Dynamic Random Access Memory Device Incorporating An On-Chip Row Register Cache To Reduce Data Access Latencies Bondurant
Pat. 6,501,698 (RAM 464)	U.S.	11/01/2000	EMS	Structure And Method For Hiding DRAM Cycle Time Behind A Burst Access Mobley
App. 09/828,283 (RAM 465)	U.S.	04/05/2001	EMS	Method For Hiding A Refresh In A Pseudo-Static Memory Mobley
Pat. 6,538,928 (RAM 468)	U.S.	10/11/2000	EMS	Method For Reducing The Width Of A Global Data Bus In A Memory Architecture Mobley
App. 09/828,488 (RAM 487)	U.S.	04/05/2001	EMS	Method And Circuit For Increasing The Memory Access Speed Of An Enhanced Synchronous SDRAM Peters
App. 10/782,386 (RAM 487 CON)	U.S.	02/18/2004	EMS	Method And Circuit For Increasing The Memory Access Speed Of An Enhanced Synchronous SDRAM Peters
App. 10/178,072 (RAM 491)	U.S.	06/20/2002	RAM	Method And Circuit For Increasing The Memory Access Speed Of An Enhanced Synchronous SDRAM Mobley, Peters, Schuette

Pat. 5,787,457	U.S.	10/18/1996	EMS	Cached Synchronous DRAM Architecture Allowing Concurrent DRAM Operations Miller, Rogers, Tomashot, Bondurant, Jones, Jr., Mobley
Pat. 6,289,413	U.S.	10/15/1999	EMS	Cached Synchronous DRAM Architecture Having A Mode Register Programmable Cache Policy Rogers, Tomashot, Bondurant, Jones, Jr., Mobley

Subject to the exceptions described on Exhibit C to the Patent Purchase Agreement by and between the parties dated as of April 13, 2004, Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) it has obtained and submitted for recordation previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all of its rights: (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the InternationalPatent Cooperation Treaty, or any other convention, treaty, agreement or understanding. Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and at Assignee's sole expense, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Ramtron
on April 13, 2004.

RAMTRON INTERNATIONAL CORPORATION

By: _____

Name: GREG JONES

Title: PRESIDENT, ECH GRP

(Signature MUST be notarized)

STATE OF COLORADO)
) ss.
COUNTY OF EL PASO)

The foregoing instrument was acknowledged before me on this 13 of April 2004, by Greg Jones as President of Ramtron International Corporation, a Delaware corporation.

_____
Notary Public

My commission expires: 10-30-07

[SEAL]

ENHANCED MEMORY SYSTEMS, INC.

By: _____

Name: GREG JONES

Title: DIRECTOR

(Signature MUST be notarized)

STATE OF COLORADO)
) ss.
COUNTY OF EL PASO)

The foregoing instrument was acknowledged before me on this 13 of April 2004, by Greg Jones as President of Enhanced Memory Systems, Inc., a Delaware corporation.

_____
Notary Public

My commission expires: 10-30-07

[SEAL]

COPY